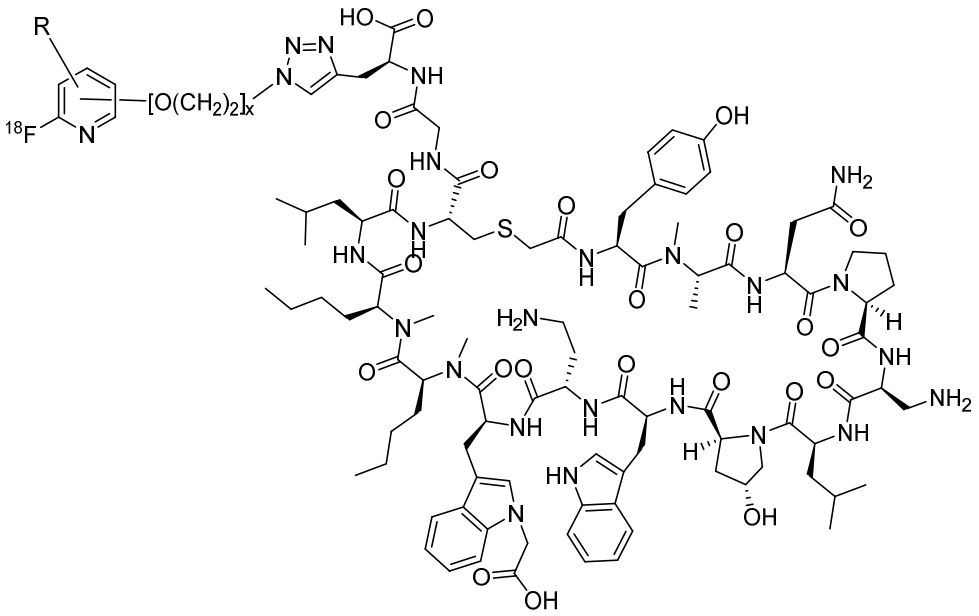
CLAIMS

WHAT IS CLAIMED IS:

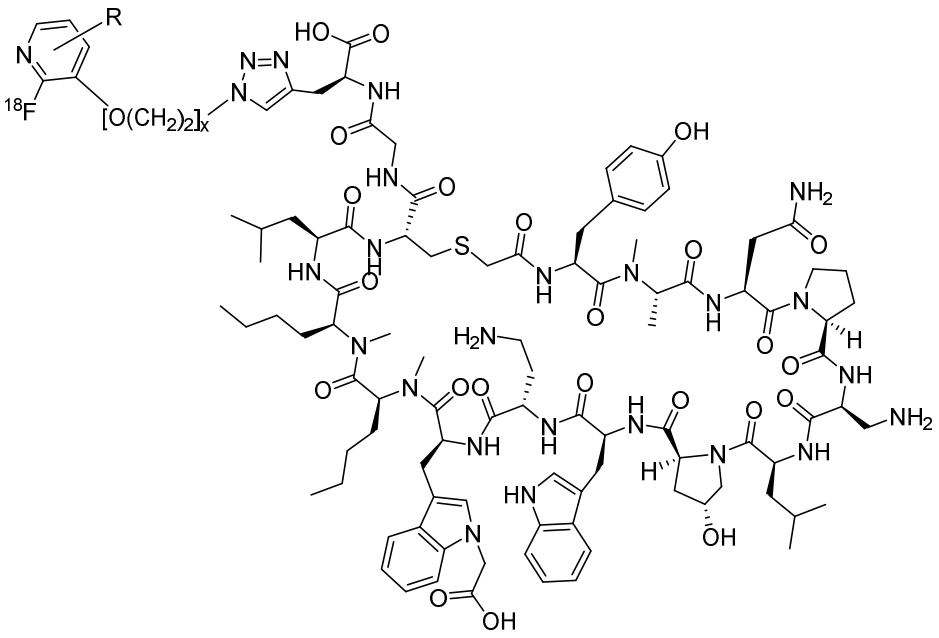
1. A compound of formula (I):



(I),

or a pharmaceutically acceptable salt thereof, wherein x is an integer from 1 to 8 and R is a C_1-C_6alkyl group.

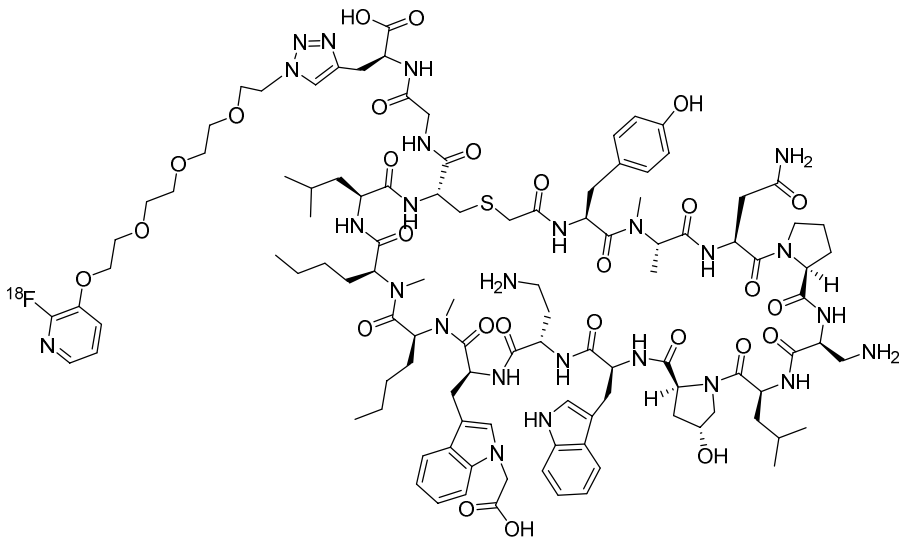
2. A compound of claim 1 of formula (II):



(II),

or a pharmaceutically acceptable salt thereof, wherein x is an integer from 1 to 8 and R is C_1-C_6alkyl group.

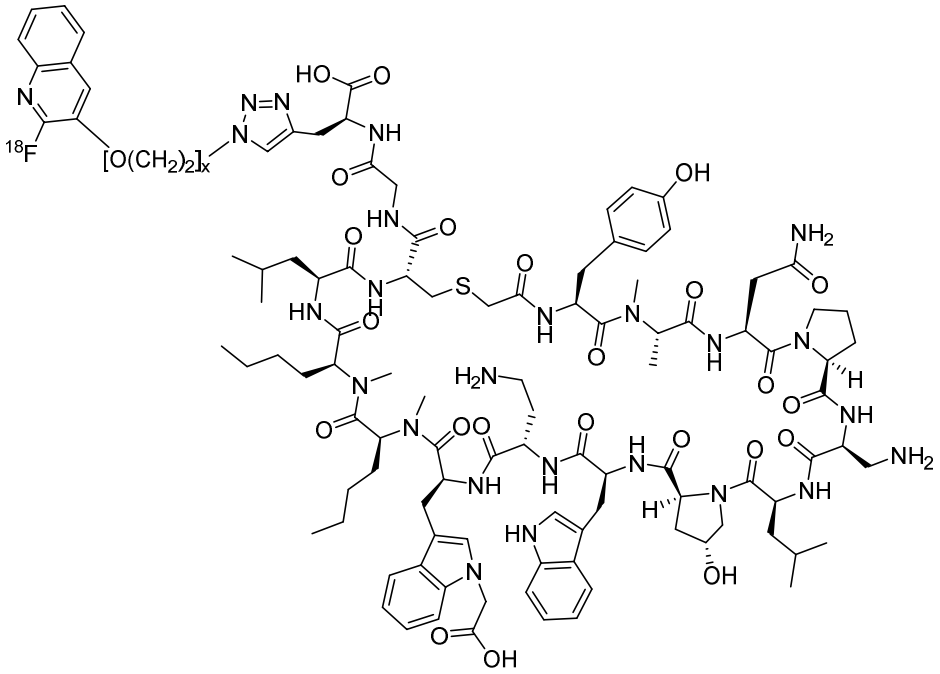
3. A compound of formula (III):



(III),

or a pharmaceutically acceptable salt thereof.

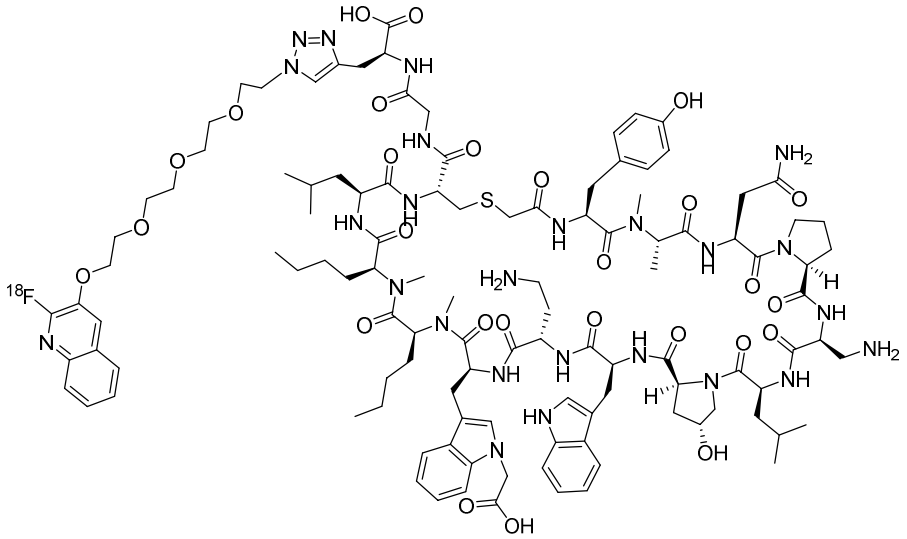
4. A compound of formula (IV):



(IV),

or a pharmaceutically acceptable salt thereof, wherein x is an integer from 1 to 8.

5. A compound of claim 4 of formula (V):



(V),

or a pharmaceutically acceptable salt thereof.

6. A compound according to any one of claims 1 to 5 or a pharmaceutically acceptable salt thereof for use in diagnosing a disease.

7. The compound or a pharmaceutically acceptable salt thereof for use according to claim 6, wherein the disease is selected from the group consisting of solid cancers, hematopoietic cancers, hematological cancers, autoimmune disease, neurodegenerative disease cardiovascular disease, and pathogenic infection.

8. A method of obtaining an image of a compound according to any one of claims 1 to 5, wherein:

a) the compound is to be administered to a subject; and

b) the method comprising imaging *in vivo* the distribution of the compound by positron emission tomography (PET) scanning.

9. A compound according to any one of claims 1 to 5 for use in obtaining an image, wherein:

a) the compound is to be administered to a subject; and

b) the use comprising imaging *in vivo* the distribution of the compound by positron emission tomography (PET) scanning, wherein the imaged distribution of the compound is indicative of the presence or absence of a disease.

10. A compound according to any one of claims 1 to 5 for use in monitoring the progress of a disease in a subject, wherein:

(a) the compound which binds to a target molecule associated with the presence of the disease is to be administered to a subject at a first time point and an image of at least a portion of the subject is to be obtained to determine the amount of the diseased cells or tissue; and

(b) the compound is to be administered to the subject at one or more subsequent time points and an image of at least a portion of the subject is to be obtained at each time point; wherein the dimension and location of the diseased cells or tissue at each time point is indicative of the progress of the disease.

11. A compound according to any one of claims 1 to 5 for use in quantifying diseased cells or tissues in a subject, wherein:

(a) the compound which binds to a target molecule located with the diseased cells or tissues is to be administered to a subject having diseased cells or tissues; and

(b) radioactive emissions of the ^{18}F in the diseased cells or tissue is to be detected, wherein the level and distribution of the radioactive emissions in the diseased cells or tissues is a quantitative measure of the diseased cells or tissues.

12. A pharmaceutical composition comprising a compound of any one of claims 1 to 5.